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Oct 3, 1996

DERWENT-ACC-NO: 1996-455664

DERWENT-WEEK: 200113

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TITLE: Sorter for separating foreign objects from mass of coins - has perforated drum with Archimedes type screw that tumbles input to cause foreign objects to exit via perforations

INVENTOR: KNUTSSON, J; LUNDGREN, S

PATENT-ASSIGNEE:

ASSIGNEE

CODE

SCAN COIN AB

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PRIORITY-DATA: 1995SE-0001091 (March 28, 1995)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 9630877 A1	October 3, 1996	E	019	G07D003/02
→ SE 9501091 A	September 29, 1996		000	G07D003/02
⇒ SE 504132 C2	November 18, 1996		000	G07D003/02
AU 9651287 A	October 16, 1996		000	G07D003/02
EP 818029 A1	January 14, 1998	E	000	G07D003/02
JP 10510384 W	October 6, 1998		020	G07D003/02
AU 710554 B	September 23, 1999		000	G07D003/02
MX 9707375 A1	March 1, 1998		000	G07D003/02
BR 9608297 A	November 30, 1999		000	G07D003/02
RU 2133981 C1	July 27, 1999		000	G07D003/02
US <u>6071187</u> A	June 6, 2000		000	G07D003/00
CA 2216709 C	December 19, 2000	E	000	G07D003/00
US 6179703 B1	January 30, 2001		000	G07D003/00

DESIGNATED-STATES: AL AM AT AU AZ BB BG BR BY CA CH CN CZ DE DK EE ES
FI GB GE HU IS JP KE KG KP KR KZ LK LR LS LT LU LV MD MG MK MN MW MX
NO NZ PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG US UZ VN AT BE CH
DE DK EA ES FR GB GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG AT BE
CH DE DK ES FR GB GR IE IT LI NL PT SE

CITED-DOCUMENTS:EP 91731; US 2646805 ; US 3196887

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
WO 9630877A1	February 7, 1996	1996WO-SE00142	
SE 9501091A	March 28, 1995	1995SE-0001091	
SE 504132C2	March 28, 1995	1995SE-0001091	
AU 9651287A	February 7, 1996	1996AU-0051287	
AU 9651287A		WO 9630877	Based on
EP 818029A1	February 7, 1996	1996EP-0907817	
EP 818029A1	February 7, 1996	1996WO-SE00142	
EP 818029A1		WO 9630877	Based on
JP 10510384W	February 7, 1996	1996JP-0529237	
JP 10510384W	February 7, 1996	1996WO-SE00142	
JP 10510384W		WO 9630877	Based on
AU 710554B	February 7, 1996	1996AU-0051287	
AU 710554B		AU 9651287	Previous Publ.
AU 710554B		WO 9630877	Based on
MX 9707375A1	September 26, 1997	1997MX-0007375	
BR 9608297A	February 7, 1996	1996BR-0008297	
BR 9608297A	February 7, 1996	1996WO-SE00142	
BR 9608297A		WO 9630877	Based on
RU 2133981C1	February 7, 1996	1996WO-SE00142	
RU 2133981C1	February 7, 1996	1997RU-0117598	
RU 2133981C1		WO 9630877	Based on
US 6071187A	February 7, 1996	1996WO-SE00142	
US 6071187A	December 12, 1997	1997US-0913495	
US 6071187A		WO 9630877	Based on
CA 2216709C	February 7, 1996	1996CA-2216709	
CA 2216709C	February 7, 1996	1996WO-SE00142	
CA 2216709C		WO 9630877	Based on
US 6179703B1	February 7, 1996	1996WO-SE00142	Cont of
US 6179703B1	December 12, 1997	1997US-0913495	Cont of
US 6179703B1	December 28, 1999	1999US-0473440	
US 6179703B1		US <u>6071187</u>	Cont of

INT-CL (IPC): B07 B 1/22; B07 B 1/24; B65 H 3/62; G07 D 3/00; G07 D 3/02; G07 D 5/02

ABSTRACTED-PUB-NO: US 6071187A
BASIC-ABSTRACT:

The sorter unit is designed to be used between a coin acceptance hopper (10) and a coin counting or sorting unit. The sorter has its input hopper (10) feeding into the inside of a drum (13). The drum is full of holes (14) leading to guiding sides (11,12). These lead to a exit container (17) that collects foreign objects. The drum is rotated by a motor (15) and belt drive (16). An Archimedes type screw (18) is fixed inside the drum.

A coin mass is placed in the hopper and is fed to the outlet by the

drum rotating around the screw. As the coin mass tumbles any foreign objects will fall via the drum holes to the container. The spacing and shape of the screw controls the effectiveness.

ADVANTAGE - Allows foreign objects to be efficiently separated from coin mass to reduce problems with coin counters being damaged.

ABSTRACTED-PUB-NO:

US 6179703B

EQUIVALENT-ABSTRACTS:

The sorter unit is designed to be used between a coin acceptance hopper (10) and a coin counting or sorting unit. The sorter has its input hopper (10) feeding into the inside of a drum (13). The drum is full of holes (14) leading to guiding sides (11,12). These lead to a exit container (17) that collects foreign objects. The drum is rotated by a motor (15) and belt drive (16). An Archimedes type screw (18) is fixed inside the drum.

A coin mass is placed in the hopper and is fed to the outlet by the drum rotating around the screw. As the coin mass tumbles any foreign objects will fall via the drum holes to the container. The spacing and shape of the screw controls the effectiveness.

ADVANTAGE - Allows foreign objects to be efficiently separated from coin mass to reduce problems with coin counters being damaged.

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ADVANTAGE - Allows foreign objects to be efficiently separated from coin mass to reduce problems with coin counters being damaged.

WO 9630877A

CHOSEN-DRAWING: Dwg.2/7

TITLE-TERMS: SORT SEPARATE FOREIGN OBJECT MASS COIN PERFORATION DRUM
ARCHIMEDES TYPE SCREW TUMBLE INPUT CAUSE FOREIGN OBJECT EXIT
PERFORATION

DERWENT-CLASS: P43 Q36 T05

EPI-CODES: T05-K01; T05-L07;

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N1996-383910